KENWOOD

AUDIO RECEIVER

AR-404/KRF-A4030

INSTRUCTION MANUAL

KENWOOD CORPORATION

This instruction manual is used to describe multiple models listed above. Model evallability and features flunctional may differ depending on the country and sales area.

About the supplied remote control (RC-R6705) . . .

Compared to standard remote controls, the remote control supplied with this receiver has several operation modes. These modes enable the remote control to control other audio components. In order to effectively use the remote control it is important to read the operating instructions and obtain a proper understanding of the remote control and how to switch its operation modes (etc.).

Using the remote control without completely understanding its design and how to switch the operation modes may result in incorrect operations.

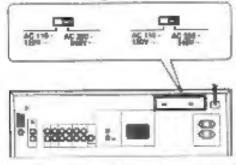
Units are designed for operation as follows.

U.S.A. and Canado	AC 120 V anly
Australia	
caloe	AC 220 Vanly
* Other cametries AC 110-220/220-300	

AC voltage selection

The AC voltage selector switch on the rear panel is set to the voltage that prevails in the area to which the unit is shipped. Before connecting the power cord to your AC. outlet, make sure that the setting position of this switch matches your line voltage. If not, it must be set to your voltage in accordance with the following direction

AC voltage selector switch



Moyo switch lever to match your line voltage with a small screwdriver or other pointed tool.

Our warranty does not cover damage caused by excessive line voltage due to improper setting of the AC voltage selector switch.

Safety precautions

WARNING :

TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK) NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSON-NEL

THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL. WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED

DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLO-SURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTI-TUTE A RISK OF ELECTRIC SHOCK TO PERSONS

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTE-NANCE ISERVICING) INSTRUCTIONS IN THE LITERATURE AC-COMPANYING THE APPLIANCE.

Unpacking

Unpack the unit carefully and make sure that all accessories are put aside so they will not be lost.

Examine the unit for any possibility of shipping damage. If your unit is damaged or fails III operate notify your dealer immediately. If your unit was shipped to you directly, notify the shipping company without dalay. Only the consignee (the person or company receiving the unit; can file a claim against the carrier for shipping damage.

We recommend that you retain the original carton and packing materials for use should you transport or ship the unit in the future

Keep this manual handy for future reference.



FM indoor antenna (1)

AM loop enteness (1)





Remote control unit (1)

Batteries (ROB/AA) (2)





*AC glug adaptor (1)



"Use to adapt the plug on the power cord to the shape of the wall dutlet. (Accessory only for regions

where use is necessary ?

Maintenance of the set

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

in regard to contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners contaming oil, for they may deform the plastic component

Special features

MONITOR

The TAPE2/MONTOR jacks of this unit accept the connection of a cassette deck, graphic equalizer, surround processor, etc. When a 3-head cassette deck is connected to the TAPE2/MONTOR jacks, it is possible to monitor the sound which has just been recorded during recording.

Station preset

This unit incorporates a function for storing received stations in preset memory with a simple operation. It is very convenient to preset the stations you like. The preset stations can be recalled also very easily

Remote controllable audio function

By connecting **KENWOOD** source components such as a cassette deck and CD player through system control connection, the basic operations of these components can be controlled from the remote control unit provided with this unit. A single remote control unit can control the entire audio system easily.

New TRAIT transistor (Except for U.S.A. and County)

The new developed "TRAIT" transistor with extremely superior temperature characteristics is used in this amplifier's amplification circuit. Through the use of this transistor, distortion generated because of temperature change is kept to a minimum resulting in "pure" sound reproduction.

K-STAT Discrete Audio Amplifier (For U.S.A. and Ganada)

Exclusive Kanwood-developed output circuitry incorporating a thermal compensation sensor inside the power transistor housing. This eliminates any amplifier warm-up period and allows the amplifier to instanteneously adjust to temperature changes, greatly improving sound quality and consistency at all volume levels.

K-STAT is the world's first transistor designed specifically for audio amplification purposes.

How to use this manual

This menual is divided in to three sections, Preparations, Operations, and Other.

Preparetions

Shows you how to connect your sudio components to the receiver

We've tried to make setting up your system as easy as possible. However, since this receiver works with all of your audio components, connecting the system can be fairly complex.

Operations

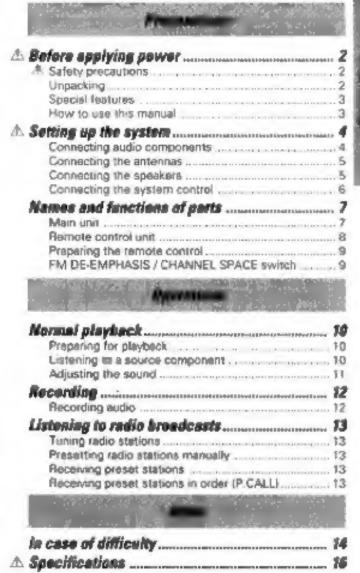
Shows you how to operate the various functions evailable from the receiver.

Other

Shows you additional information such as "to case of difficulty" (troubleshooting) and "Specifications."

Contents

Coution : Reed the pages marked 🗥 carefully to ensure safe operation.





As an ENERGY STAR® Partner, Kenwood Corporation has determined that this products meets the ENERGY STAR® guidelines for energy efficiency.

This product can save energy. Saving energy reduces air pollution and lowers utility bills.

Setting up the system

Make connections as shown below.

When connecting the related system components, be sure to also refer to the instruction manuals supplied with the components you are connecting.

Do not connect the power cord to a wall outlet until all connections are completed.

Microcomputer mailunction

If operation is not possible at an erroneous display appears, even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty".

CAUTION (Except for U.S.A. and Canada)

Be sure to adhere followings. Or proper ventilation will be blocked causing damage or fire hezard.

- Do not place any objects impairing heat radiation onto the top of unit.
- Leave a space around the unit from the largest outside dimension including projection) equal or greater than, shown below.

Top panel : 50 cm Side panel : 10 cm Beck panel : 10 cm

CAUTION (For U.S.A. and Canada)

He sure to adhere followings. Or proper ventiletien will be blocked causing damage or fire hexard.

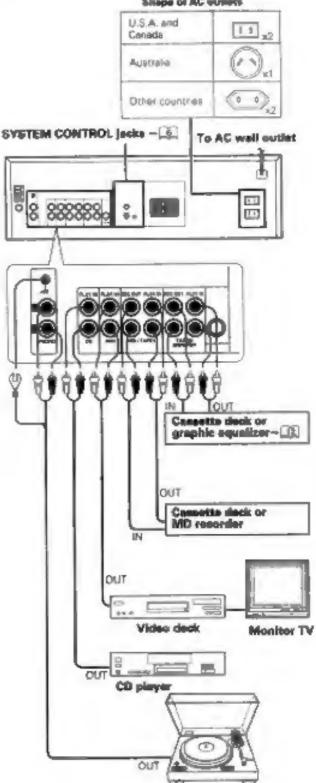
 Do not place any objects impairing heat radiation onto the top of unit.

Mintag

- Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
- Be sure to remove the power cord from the AC outlet before plugging or unplugging any connection cords. Plugging / unplugging connection cords without disconnecting the power cord can cause malfunctions and may damage the unit.
- Do not connect power cords from components whose power consumption is larger than what is indicated on the AC outlet at the rear of this unit.

Connecting audio components

Shape of AC outlets



Record player

Connecting the antennas

AM antenna terminal connections O Push lever. O Insert cord. O Return lever.

AM loop entenna

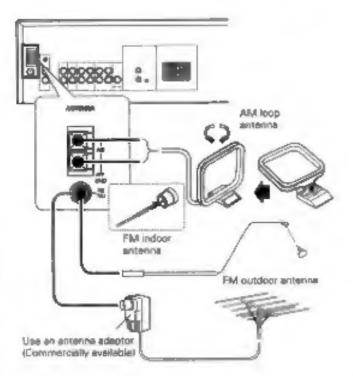
The supplied loop antenna is for use indoors. Place it as far as possible from the receiver, TV set, speaker cords and power cord, and adjust the direction for best reception.

FM indoor autenna

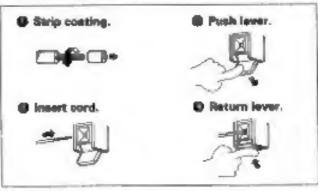
The supplied indoor entenna is for temporary use only. For stable signal reception we recommend using an outdoor entenna. Disconnect the indoor entenna when you connect one outdoors.

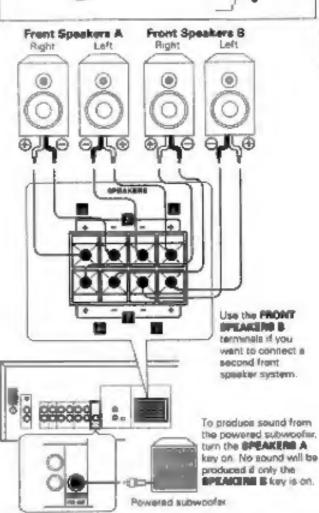
FMI outdoor antenna

Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75Ω terminal.



Connecting the speakers





- 4 Never short circuit the + and speaker cords.
- If the left and right speakers are connected inversely or the speaker cords are connected with reversed polarity, the sound will be unnatural with ambiguous acoustic imaging.
 Be sure III connect the speakers correctly.

Speaker impedance

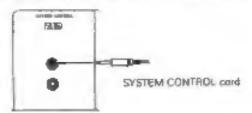
After confirming the speaker impedence indications printed on the rear panel of the receiver, connect speakers with matching impedence ratings. Using speakers with a rated impedence other than that indicated on the rear panel ill the receiver could result in malfunctions or damage to the speakers or receiver.

Connecting the system control

Connecting system control cords after connecting a KERWOOD audio component system lets you take advantage of convenient system control operations.

This unit is compatible only with the (SL-16) mode. The system control operation is not available if the unit is connected in the [XS-8], [X8], or [XR] connection mode.

If your component has the mode exisct switch, set the connected components to the [St.16] mode.



EXAMPLE: (SL16) mode connections

The underlined portion represents the setting of the system control mode.



- In order to take advantage of the system control operations, the components must be connected to the correct jacks. To use a CD player it must be connected to the CD jacks. To use a cassette deck for MD recorder) it must be connected to the MD/TAPE jacks. When using more than one CD player letc.) only the one connected to the specified jacks may be connected for system control.
- Some CD players and cassette decks are not competible with the [8L16] system control mode.
- Some MD players are not system control compatible.
 You cannot make system control connections to this kind of equipment.

Notes

- [84.16] equipment cannot be combined with [XR], [X8].
 and [X34] equipment for system operations, if your
 equipment consists of this land of combination, please do
 not connect any system control cords. Even without
 system control cords, normal operations can be carried
 out without effecting performance.
- Do not connect system control cords to any components other than those specified by KENWOOD. It may cause a malfunction and damage your equipment.
- Be sure the system control plugs are inserted all the wity in to the system control terminals.

Do not connect a system control cord to a casestia deck connected to the TAPEZ/MONITOR jacks.

SYSTEM CONTROL operations

Remote Control

Lets you operate this unit with the system remote supplied with the receiver.

Automatic Operation

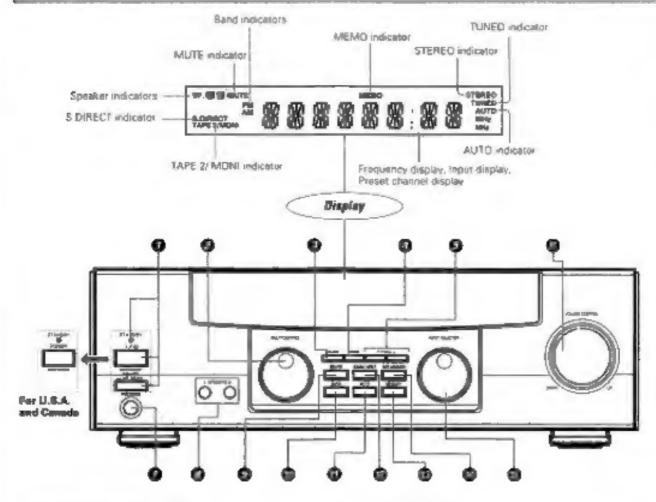
When you start playback from a source component, the imput selector on this unit switches to that component automatically.

Synchronized Recording

Lets you synchronize recording with the start of playback when recording from CD, MD or enelog discs.

Hamos and functions of parts

Main unit

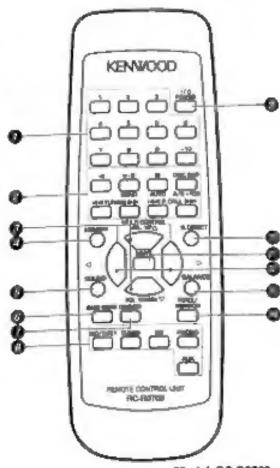


0	(Except for U.S.A. and Counds) ON/STANDBY (1/6) key	-(1)
	Use to switch the power ON/STANDBY when the Pris turned ON.	OWNER
	STANDBY indicator POWER key	
	(For U.S.A. and Canada) POWER key	-00
	Use III turn the power ON/OFF. STANDBY indicator	
•	MULTI CONTROL treeb Used to make a variety of settings.	
0	BALANCE key	-[]]
0	Use to adjust the sound balance. DOWNER key	-12
	Use to adjust the brightness III the display. P.CALL V/A keys	- m
0	Use to call up previously registered radio stations. VOLUME CONTROL knob	-[3]

PHONES jack	-(11)
Use for headphone listening. SPEAKERS A B keys	-(10)
Use to turn speaker system A/B on and off. BOUND key	-(11)
Use to edjust the sound quality. BAND key	-(35)
Use to select the broadcast band. AUTO key	-(151
Use to select the auto turning mode. SOURCE DIRECT bay	-(31)
MEMORY key Use to store radio stations in the preset memory	-00
TAPE 2/MONITOR key -[39 NPUT SELECTOR knob	
Use to select the input sources	6-64

Standby mode

While the standby indicator of the unit is lit, a small amount of current is flowing into the unit's internal circuitry to back up the memory. This condition is referred to as the standby mode of the unit. While the unit is in the standby mode, it can illi turned ON from the remote control unit.



Model: RC-R0709 Infrared ray system

♠ Numeric keys (1-0, ±10)

If CD or MD is selected as the input source, these keys function as numeric keys. If tuner is selected as the input source, these keys are used to cell up station presets.

Component operation keys

Use these keys to operate other components with system control connections to the receiver.

TUNING I-e-s sell keys

If tuner is selected as the input source, these keys function as tuning keys.

If CD or MD is selected as the input source, these keys function as search keys.

P.CALL (rest need) keys

If tuner is selected as the input source, these keys function as P.CALL keys.

If CD or MD is selected as the input source, these keys function as skip keys.

4 key

If tape is selected as the input source, this key functions as the play key for side B of the casaette (the side facing away from the front lift the deck).

BAND (1-/10) key

-03

If tuner is selected as the input source, this key functions as the band selector key.

If CD is selected as the input source, this key functions as the play/pause key.

If MD is selected as the input source, this key functions as the play key

DISC SKIP, A/B, +100 key

1) CD is selected as the input source, this key functions as the multi-CD player disc skip key.

If TAPE is selected as the input source, this key is used to switch between the two decks (A and B) of a double cassette deck.

If MD is selected as the input source, this key function as numeric key.

AUTO(n) key

-(31)

If Juner is selected as the input source, this key functions as the AUTO key.

If CD or MD is selected as the input source, this key functions as the stop key.

- D VOLUME UP, DOWN keys
- -[10]

-13

- MEMORY key
- Use to store radio stations in the preset memory.

 SOUND key (10)
- Use III adjust the sound quality.

 BASS BOOST key

 -31
- Use to select the maximum adjustment setting for the low frequency range.

 DMANGER key
- Use to adjust the brightness of the display.
- Input selector keys
 Use to select the receiver's input source.
- Use to switch the power ON/STANCBY when the POWER is turned ON.
- S.DIRECT key
 MUTE key
- Use to temporarily mute the sound.

MULTI CONTROL keys

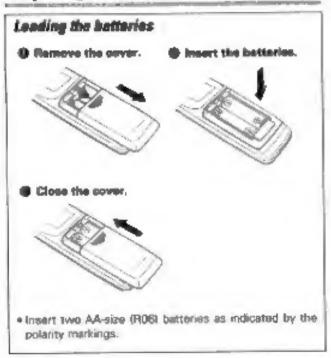
Used to make a variety of settings.

Use to adjust the sound balance.

TAPE2/ MONITOR key

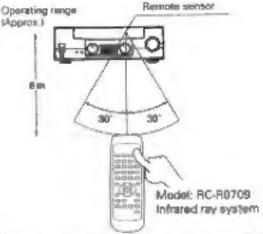
-(10) -(12)

Preparing the remote control



Operation

When the "STANDBY" indicator is lit, the power turns ON when you press the POWER (1/6) key on the remote control. When the power comes ON, press the key you want to operate.



When pressing more than one remote control key successively, press the keys securely by leaving an interval of 1 second or more between keys.

Notes:

- The supplied betteries may have shorter lives than ordinary batteries due to use during operation checks.
- When the remote-controllable distance gets shorter than before, replace both betteries with new ones.
- Placing the remote sensor in direct sunlight, or in direct light from a high frequency fluorescent lamp may cause a malfunction.

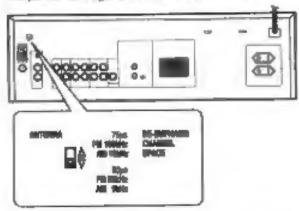
In such a case, change the location of the system mataliation to prevent malfunction.

FM DE-EMPHASIS / CHANNEL SPACE switch

(Expect for the U.S.A., Conside and Asetrolia)

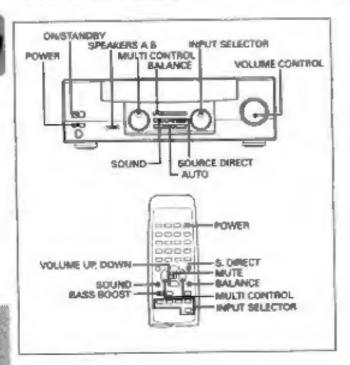
The DE-EMPHASIS / CHANNEL SPACE switch on the rear panel is set to the correct setting that prevails in the area to which the unit is shipped. However, if the DE-EMPHASIS / CHANNEL SPACE setting is not matched to the area where the unit is to be used; for instance, when you moved from area 1 to area 2 or vice versa, desired reception iff AM / FM broadcasts is not expected. In this case, change the DE-EMPHASIS / CHANNEL SPACE setting in accordance with the area corresponding to the table. The DE-EMPHASIS is switched over at the same time.

 When changing the setting of the DE-EMPHASIS / CHAN-MEL SPACE switch, first disconnect the power cord of the amplifier, then change the channel space switch, connect the power cord again, and turn the power on.



Area		CHANNEL SPACE freq.	PM DE- EMPHASIS
1	U.S.A., Canada, Hawaii, South American countries	FM : 100kHz AM : 10kHz	75 µ8
2	Other countries	FM : 50kHz AM : 9kHz	50 µs

Normal playback



Preparing for playback

Some preparatory steps are needed before starting playback.

Turning on the receiver

- Turn on the POWER key to ON. (Except for U.S.A. and Geneda)
- Turn on the power to this receiver by pressing ON/ STANDSY [1/0] key.

Selecting MD/TAPE 1 (Main unit only)

Select the source name corresponding to the component connected to the ND/TAPE1 jacks. The initial factory setting is "TAPE1". To change the source name associated with the ND/TAPE1 jacks to "ND", follow the steps below.

- O Line the INPUT SELECTOR knob to select "TAPE 1".
- Hold down the AUTO key for more than 2 seconds.
 - * The source indication changes III "MD".
 - To return to the original indication, repeat the above procedure.

Selecting the speaker system

Press the SPEAKERS A or III key to select the speaker system to be used.

A ON Sound from the speakers connected to the SPEAKERS A terminals on the rear panel.

Sound from the speakers connected to the SPEAKERS 8 terminals on the rear panel.

A+B ON : Sound from both the speakers connected to

the SPEAKERS A and E terminals on the rear

panel

A+B OFF : No sound from the speakers. Use this setting

when listening with headphones.

The indicator for the speakers you want to use should be lit.



Listening to a source component

Use the input selector (IMPUT SELECTOR) to select the source you want to listen to.

The input sources change as shown below:

Selecting a source using the INPUT SELECTOR

O-TUNER (frequency display)

a "CD"

@ "TAPE 1" or "MD"

O "PHONO"

- 0 "AUX"

- When selecting an input source by using the remote control, press the desired input selector key.
- The INPUT SELECTOR on the front panel of the receiver always cycles through III inputs.
- Start playback from the selected source.
- Use the VOLUME CONTROL (VOLUME UP, DOWN) to adjust the volume.
 - The sound of input source cannot be listened to with TAPEZ/MONITOR is ON.

Adjusting the sound

Adjusting the tope

Use the following procedure III adjust the bass and trable levels

Prese the SOUND key to select the tone mode to be activated.

PASS - Select this to adjust the low frequency range (Press the SOUND key once):

TREBLE Select this to adjust the high frequency range (Press the SOUND key twice.)

™ 3855 +4

- Use the MULTI CONTROL to adjust the sound quality.
 - The bass and treble levels are adjustable from -10 to +10 to 2 step increments
 - The adjustment item is displayed for approximately 8 seconds

Once-touch low frequency emphasis (BASS 800ST) (Remete control only)

Use the following procedure to emphasize the bass and create a richer sound.

From the BASE BOOST key.

*** 3855 + ID

Press the #ASS BOOST key once to select the maximum (+10) low frequency emphasis setting.

Switzbing back to the previous setting

Press the BASE BOUST key again.

Muting the sound (Remote control only)

MUTE fets you mute till sound of the speakers.

Press the MUTE key.

Blinks

TRPE

Muting can also be cancelled by adjusting the volume

Te centrel

Proce the MUTE key ugain so that the "MUTE" indicator goes off.

SOURCE DIRECT playback

Use this function to pass the source material direct to the amplifier, by passing any audio processing.

Press the SOURCE DIRECT (\$.DIRECT) key.



 Switch to another input source to cancel SOURCE DI-RECT (S.DIRECT) playback.

To cancel

Press the SOURCE DIRECT (S.DIRECT) key again.

Listening with headphones

Prese the SPEAKERS A or 6 key so that the speaker indicator goes off.

Make sure the SPEAKERS indicators are turned off.



@ Correct headphones to the PHONES jack.



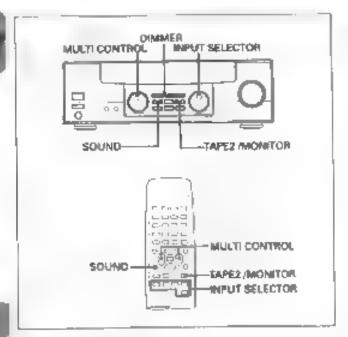
Use the VOLUME CONTROL (VOLUME UP, DOWN) to adjust the values.

The adjust the BALANCE

The mode for edjusting the volume balance between the left and right

- Trees the BALANCE key.
- Use the MULTI CONTROL to adjust the belongs.

indicates the before setting.



Recording audio

Recording a music source

- Use the input selector (MPUT SELECTOR) to select the source (other than "TAPE 1") you want to record.
- Set the execette deck to record.
- Stort playback, then start recording.

Cogying tapes

TAPE 1 - TAPE 2 copying

- Use the input selector to select "TAPE 1".
- Start playback on the cassatte deak connected to the ND/TAPE1 jacks and start recording on the cassatte deck connected to the TAPE2/MONITOR jacks.
 - To copy tapes using a double cassette deck, refer to the instruction manual of the double cassette deck.

TAPE2/MONSTOR function

You can connect a cassette deck or graphic equalizar in the TAPE2/MONITOR jacks of the receiver. It a graphic equalizer is connected, the TAPE2/MONITOR key should be left in the on position. Alternately, if a cassette deck equipped with a 3-head system is connected to the TAPE2/MONITOR jacks, you will be able to moretor the just-recorded signal while making recordings on the cassette deck. By switching the TAPE2/MONITOR key on and off, you can compare the sound of the source signal and the just-recorded signal. For more information, refer to the instruction manual of the connected component.

- The equalities affect can be applied to the played audio but cannot be recorded together with the audio signal.
- Copy from "TAPE 2" to "TAPE 1" is not possible.

input level adjustment (when using the monitor function)

If the input level while using the monitor function is too high, adjust the input level as described below

The input level cannot be adjusted when in the source direct obviously mode

- Press the TAPE2/MONITOR key.
- Prese the SQUND key several times until the "INPUT" indication appears.
- Use the MULTI CONTROL to adjust the input level.

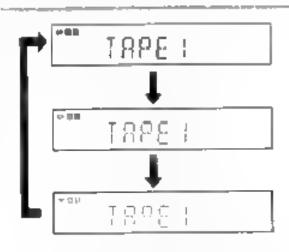


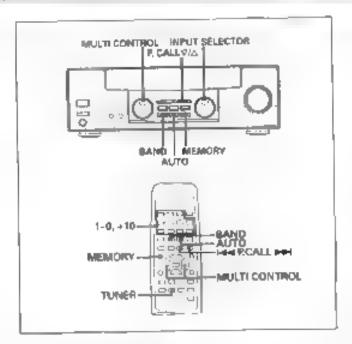
- The adjustment mode is displayed for approximately 8 seconds.
- The input level may be adjusted to any one of 2 settings:
 0 and -6. (The mittal setting is 0.)
- Press the SOUND key to return to the imput indication.

Display dimmer adjustment

The dimmer function lets you select the brightness of the receiver's display. You might find this useful if you darken your room to watch movies or listen to music

Each time you press the DMMER key, the display brightness changes among the three available settings. Select the brightness level you find most pleasing.





Tuning radio stations

- Use the lagest sulector (MIPUT SELECTOR) to select the tener.
- Use the BAHD key to select the desired breadcast band.

Each press wettches the band as follows:





Else the AUTO key to select the desired tuning method.

Each press swellphas the tuning method as follows:

Commut obust #8 OTUA ... @ AUTO not fit trapquel funing)



 Normally, set to "AUTO" (auto (uning).
 If the radio waves are week and there is a lot of interference, switch to manual turning. (With manual turning, stereo broadcasts will be received in moraural.)

Use the MULTI CONTROL ■ select the station.

Lights when a broadcast is being received in stereo



depleyed when a station is received.

Frequency display

Auto tanino

The next station is funed automatically Manual tuning :Turn the knob (press the key) to select the desired station.

 You can also use the **TUMMB** key on the remote control to make the selection.

Presetting radio stations manually

- Time to the station you want to store.
- Proce the MEMORY key while receiving the station.

Lights for 5 seconds.

Blinks for 5 seconds

Proceed to step 2 within 5 secencis. (If more than 5 seconds slapes, press the MENIORY key again).

- 1 Use the MULTI CONTROL to select one of the station presets (7 - 40).
- De Press the MEMORY key to accept the setting.
 - as necessary
 - If you store a station is a previously used preser, the old station will be replaced by the new one

Receiving preset stations

- Use the input selector (IMPUT SELECTOR) to select the tuner.
- lifting the remote control unit, eater the number of the preset you want to receive (up to "40").

Proof the numeric keys in the following order:

For "20", prace [10], [10], [0]

 If you make a mestake entering a two digit number, press the +10 key several times to return to the original display and start again

Receiving preset stations in order (P.CALL)

- Lise the imput selector (IMPUT SELECTOR) to select the tupor.
- Wise the P.CALL key to select the desired station.
 - . Each time you press the P.CALL key, another preset station is received in order.

Pressing the P.CALL (seed key (P.CALLA) does the following:

01-02-63- -- 38-38-40-61-02-65-

Pressing the P.CALL 644) key (P.CALLV) does the following: 61-02-03----38--28--49--01--02--03--

Holding down the P.CALL key, lets you skip through the presets, receiving each for 0.5 seconds epicos.

Resetting the Microcomputer

If the microcomputer may mallunction funit cannot be operated, or shows an erroneous display if the power cord is unplugged while the power is ON, or due to some other external factor. If this happens, execute the following procedure to reset the microcomputer and return the unit to its normal operating condition.

For M.S.A. and Connells

Unplug the power cord from the well outlet, then glog it back in while helding down the POWER key.

Except for U.S.A. and County

With the power cord plugged in, turn the POWER key OFF. Then, while holding down the ON/STANDSY key, press the POWER key.

 Please note that resetting the microcomputer will clear the contents of the memory and returns the unit to the state it was a when it left the factory.

Amplifier

A CONTRACTOR OF THE PARTY OF TH	State of the state	The state of the s
He sound from the speakers.	 The speaker cords are disconnected. VOLUME is set to the minimum position MUTE is ON The SPEAKERS switches are set to OFF. 	Connect properly reterring to "Setting up the system". Adjust the volume to a proper level. Turn OFF the MUTE. Set the SPEAKERS switch(es) to ON. - IS.
The standby indicator blinks and sound is not output.	Speaker cords are short-circuited.	Turn the power off, eliminate the short- circuiting, then turn on the power again (3)
Sound is not output from one of the speakers.	The speaker cord is disconnected	• Connect properly referring to "Setting up the system".
A humming noise is generated when the PHONO input selector is selected.	The audio cord from the turntable is not connected to the PHONO jacks The turntable is not grounded.	Insert the audio cord plugs securely into the PHONO jacks Connect the grounding was to the GND terrivinal on the rear panel.

Tuner

a Maria di Maria	ray varance	
Realio stations cannot be received.	No antenna is connected. The broadcast band is not set properly. The frequency of the desired station is not tuned.	Connect an antenna Set the broadcast band properly Tune the frequency of the desired station.
Interference.	Noise due to ignition noise from an automobile. Noise due to interference from an electric appliance. Noise due to a nearby TV set.	 Install the outdoor antenna away from the road. Turn off the power to the appliance. Install the receiver farther away from the TV.
A station which was preset pannot be received by pressing the sprea- sponding numeric key.	The present station belongs to a frequency that cannot be received. The present memory was cleared because the power cord had been unplugged for a long period of time.	Preset a station with a receivable frequency. Preset the station again.

Remote control unit

Remote control operation is not pessible.

- · Batteries are exhausted.
- The remote control unit is too far away from the main system, controlling angle in too large, or there is an obstacle between the receiver and the remote.
- The audio cords and system control cords are not connected properly.
- No software is loaded in the source component.
- An attempt is made to play a tape which is being recorded in the cassette deck.

- Replace with new batteries.
- Operate the remote control unit within the controllable range.
- Connect properly referring to "Setting up the system" 10 61
- Place software in the source component you want to play.
- · Wait until recording has completed.

Memory back up function

For U.S.A. and Conside

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC outlet for approximately 3 days.

Except for U.S.A. and Conside

Please note that the following items will be deleted from the unit's memory if the power cord is disconnected from the AC autiet or the main power switch is turned off for approximately 3 days.

- · Power made
- Input selector settings
- Volume level
- · Broadcast band
- · Frequency setting
- Preset stations

For the U.S.A.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment may cause harmful interference to radio communications, if it is not installation and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- - Regrient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -- Consult the dealer or an experienced radio / TV technician for help.

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

For U.S.A. and Canada

| AUDIO section |

Rated power output during STEREO operation

100 watts per channel minimum RMB, both channels driven, at 8 \(\Omega\$ from 40 Hz to 20 kHz with no more than 9.5 % total harmonic distortion. (FTC)

to the state of th	A PRINT IN LAST TO WE B (I)
Total harmonic distortion Signal to noise ratio (IHF 66)	U.U.Z 76 (4 KHZ, 60 M, M LI)
Pillula to upone tamo that and	75.40
PHONO (MM)	de en
CD	
input sensitivity / impedance	1110710
PHONO (MM)	2.5 (NY / 27 K)
CD	200 mV / 47 kD
Dutnut level / Impedence	
TAPE REC	200 mV / 2.2 kΩ
PRE OUT (SUBWOOPER)	2 V / 2.2 kQ
Tone control	
BACC	=9 dB (at 100 Hz)
TREBLE	#9 dB (at 10 kHz)
PROLE ASSESSMENT	
[FM tuner section]	
Tuning frequency range	87,8 MHz - 198.0 MHz
Hamble engalitable (MICINITY)	1.0 UV (75 LU/15.2 000
(75 EH2 DEV., SINAD 30 dB1
PAUD - Justine aspectations	
STEREO WARREND SHOWN THE	31.6 uV (75 ΩV 41.2 d9f
Total harmonic distortion (1)	believe
MONO	0.6 % IAS dBF Inputh
MUNU	9.7 % (66 dill input)
STEREU metropromonomoro	on data PARTS)
Signal to noise ratio 1 kHz, 7	IN THE PARTY.
INONOOHONI	
TENEO	66 dB (65 dBf input)
Stereo separation (1 kHz)	
Selectivity (±400 kitz)	
Frequency emponso (30 Hz	z = 16MHz), +0.5 dB = -3.0 dB
[AM tuner section] Tuning frequency range	COR MAN 1 200 MM
I would medineutal coulds were	COLOR AD
Usable conditivity (30% mod	SHIP 20 GDI
Bignel to neise ratio (30% re-	ed. 1 mV input) on cas
(GENEAL)	
Power consumption	284
Lambe contractabilion was	MANUAL PROPERTY OF THE PARTY OF
AC outlet	2 (total 150 W, 1.25 A max.)
SWITCHED	C THE THE REAL PROPERTY.
Dimensions	**************************************
	H:144 mm (5-11/16")
	D:389 mm (16-5/16*)
Weight (Net)	

For other countries

| AUDIO section |

140 W + 140 W

160 watts per channel minimum Ridis, both channels driven, at 8 G from 40 Hz to 20 kHz with no more than 9.5 % total harmonic distortion.(FTC)

And the same commercial contraction	
Total harmonic distortion	0.02 % (1 kHz, 50W, 8 Ω)
Circult to color ratio (HEFIR)	
PHONO (MM)	75 dB
CD	92 dB
Input sensitivity / impedance	and the state of t
tubut secentrary t subscenario	9 E wild 2 99 hO
PHONO (MIM)	mercure and the last terms and the
CD	**************************************
Output level / isspeciance	
TAPE REC	200 mV / 2.2 kg
MRE OUT ISLUMINODEEN	2 V / 2.2 kΩ
	minimum at a minimum
Tone control	and the first state black
CASS	and off (et 100 biz)
The state of the s	
[FM tuner section	
Tuesday for manager at 6 ag	97 5 MHz 108 0 MHz
Unable sensitivity	MAN A P 12 PRO COLUMN TO A 4806
Chapte sensitivity	MAN TO THE EAST OF THE COMME
	76 MHz DEV., SIMAO 30 dB)
50dB quieting sensitivity	
STEREO	31.0 µV (75 Ω)/ 41.2 dBl
Total harmonic distortion (1	Miles
1000 illinious meroson (1	A C S. MS dDI inputh
The second second second	0.6 % (85 dB) input)
STEREO	0.7 % (65 dBf input)
Singel to noise ratio (5 kHz.)	75 kHz DEV.)
MONO	75 dB (65 dBf input)
STEREO	88 dB (85 dBf input)
Stereo separation (1 kHz)	14 di
Others cohestent is made	DE AD
Selectivity (s400 kHz) senses	A STATE OF THE PARTY OF THE PAR
Fraquency response (30)	MS-10804F), +012 dm316 dm
(AM tuner section I	
Tuning frequency range	
6 hitiz etan	501 kHz ~ 1,002 kHz
10 fells atom incount Austro	(No.) 530 kHz - 1,610 kHz
Usable sensitivity (30% mod	8/N 20 (M)
Chinese soundland these supp	AR AND ARROWS AND ADDRESS.
managed and blood and a succession of the succes	
Signel to noise ratio (30% re	od. I my inpet) 50 de
[GENEAL]	
Power consumetion	

Notes:

1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

The full performance may not be exhibited in an extremely cold location (under a water-freezing temperature).

KENWOO

For your records

AC outlet

Dimensions...

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

H:144 mm (5-11/18") D:300 mm (15-5/16") ... 8.0 kg (17.6 fb)

Model _	Serial Number
	Salita Nillian

Please read all of the safety and operating instructions before operating this appliance. Adhere to all warrings on the appliance and in the instruction manual. Follow all the safety and operating instructions. These safety and operating instructions should be retained for future reference.

- Power sources The appliance should be connected to a power supply only of the type described in the instruction manual et as marked on the appliance. If you are not sure of the type all power supply to your home, consult your appliance dealer or local power company. For appliances intended to operate from battery power, or other sources, rafer to the instruction manual.
- Pewer-cord protection Power-supply cords should be routed so that they are not likely to be walked on impinched by items placed upon or against them, pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.



- 2. CAUTION Polarization This appliance may be equipped with a polarized alternating-current line plug to plug having one blade wider than the other! This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug, if the plug should still fill to fit, contact your electricien to replace your obsolete outlint. Do not defeat the safety purpose of the polarized plug.
- 4. Ventiletien Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The appliance should be situated so that its location or position does not interfere with its proper ventilation.

To maintain good ventilation, do not put records or a tablecloth on the appliance. Place the appliance at least 10 cm away from the walls.

Do not use the appliance on a bed, sole, rug or similar surface that may block the ventilation openings. This appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been achieved to



8. Water and moleture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, etc.

- Temperature The appliance may not function properly if used at extremely low, or freezing temperatures. The ideal ambient temperature is above +5°C (41°F)
- Next The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat
- 4. Ejectric shock Care should be taken so that objects do not fall and liquid is not spilled into the enclosure through openings. If a metal objects, such as a hair pin or a needle, comes into contact with the inside of this appliance, a dangerous electric shock may result. For femilies with children, never permit children to put anything, especially metal, maids this appliance.



 Eaclosure removal – Never remove the enclosure if the internal parts are touched accidentally, a serious electric shock might occur.



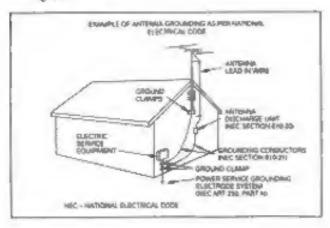
- 10.Magnetic fields Keep the appliance away from sources of magnetic fields such as TV sets, speaker systems, radios, motorized toys or magnetized objects.
- 11.Cleaning Unplug this appliance from the wall outlet before cleaning. Do not use volatile solvents such as alcohol, paint thinner, gasoline, or benzine, etc. to clean the cabinet. Use a clean dry cloth.
- 12. Assessarios Do not place this appliance on an unstable cart, stand, imped, bracket, or table. The appliance may fell, causing sensus injury to a child or edult, and sensus damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stope, excessive force, and uneven surfaces may cause the appliance and cart combination to overture.



- 13. Lightning For edded protection for this appliance during a lightning storm, or when it is left unattended and unused for long periods till time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage by the appliance due to lightning and power-line surges.
- 14. Abnormal smoll if an abnormal smoll or smoke is detected, immediately turn the power OFF and unplug the appliance from the wall audet. Contact your dealer or nearest service center.



- 15. Damage requiring service The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged
 - Objects have fallen, or liquid has been spilled into the appliance.
 - C. The appliance has been exposed to rain or water.
 - D. The appliance does not appear to operate normally by following the instruction manual. Adjust only those controls that are covered by the instruction manual as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation.
 - The appliance has been dropped, or the enclosure damaged.
 - F. The appliance exhibits americad change in performance.
- 10. Servicing The user should not extempt to service the apphance beyond that described in the instruction manual. All other servicing should be referred to qualified service personnel.
- 17. Outdoor setema grounding If an outside antenna is connected to the appliance, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. Article 810 of the National Electrical Code ANSU NEPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenne discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure.



- 18. Power times An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall ritto such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
- 19.AC outlets Do not connect other audio equipment with a power consumption larger than that specified to the AC outlet on the rear panel. Never connect other electrical appliances, such as an iron or toaster, to it is prevent tire or electric shock.



- Overloading Wo not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
- [7] Attachment Do not use anachments not recommended by the appliance manufacturer as they may cause heards.
- 22. Replacement parts When replacement parts are required, be sure the service technician has used replacement parts apecified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- Safety sheek Upon completion of any service or repairs to this appliance, ask the service technicien to perform safety checks to determine that the appliance is in proper operating condition.

Notes:

- Item 3 is not required except for grounded or patented equipment.
- Item 17 and 18 are not required except for units provided with antenna terminals.
- 3. Item 17 complies with UL in the U.S.A.